

Amendments To The Claims:

Please amend the claims as shown:

1 – 11 (canceled)

12. (previously presented) A heat exchanger tube, comprising:  
a tube having an outside surface exposed to a steam medium and an inside surface exposed to a cooling medium;  
a first layer arranged on the outside surface of the tube for reducing an adhesion of the steam medium to the tube outer surface; and  
a second biocidal layer arranged on the inside surface of the tube that reduces an adhesion of the cooling medium to the tube inner surface and inhibits encrustation to the tube inner surface.

13. (previously presented) The heat exchanger tube as claimed in claim 12, wherein the first layer or the second layer are formed by a plurality of sub-layers.

14. (previously presented) The heat exchanger tube as claimed in claim 12, wherein the first or second layer of the heat exchanger tube are coatings and each coating is produced differently from the other.

15. (previously presented) The heat exchanger tube as claimed in claim 14, wherein the first layer reduces the surface tension of the outer surface.

16. (previously presented) A power plant heat exchanger, comprising:  
a plurality of heat exchanger tubes having an outside surface and an inside surface that  
route a cooling medium along the inside surface of the tube wherein:  
a first layer is arranged on the outside surface of the tube for reducing an  
adhesion of the steam medium to the tube outer surface, and  
a second biocidal layer is arranged on the inside surface of the tube that  
reduces an adhesion of the cooling medium to the tube inner surface and inhibits  
encrustation to the tube inner surface; and  
a steam medium routing configured to route a steam medium upon the outside surface of  
the heat exchanger tube.

17. (currently amended) The heat exchanger as claimed in claim 16, wherein the heat  
exchanger tube is a longitudinally welded tube having a weld seam running along a long axis of  
the tube and the tube is arranged in the assembled heat exchanger such that the tube weld seam is  
located at an upper most position of the tube cross section, wherein there is a region proximate to  
the weld seam which is free of the second biocidal layer, and a remaining region on which the  
second biocidal layer is arranged, said remaining region being disposed remote from the weld  
seam.

18. (currently amended) A steam power heat exchanger system, comprising:  
a heat source;  
a boiler connected to the heat source that intakes a liquid working fluid and heats the fluid to generate a steam flow;  
a steam turbine connected to the boiler that expands the steam flow; and  
a condenser that condenses the expanded steam flow into the liquid working fluid,  
wherein the condenser comprises:

a plurality of heat exchanger tubes having a weld seam running along a long axis of the tube arranged in the assembled condenser such that the tube weld seam is located at an upper most position of the tube cross section, the heat exchanger tubes further having an outside surface and an inside surface that rout a cooling medium along the inside surface of the tube wherein:

there is a region proximate to the weld seam which is free of the second biocidal layer, and a remaining region on which the second biocidal layer is arranged, said remaining region being disposed remote from the weld seam.

a first layer is arranged on the outside surface of the tube for reducing an adhesion of the steam flow to the tube outer surface, and

a second biocidal layer is arranged on the inside surface of the tube that reduces an adhesion of the cooling medium to the tube inner surface; and

a steam flow routing configured to rout the steam flow upon the outside surface of the heat exchanger tube.

19. (cancelled)

20. (new) The second biocidal layer as claimed in claim 12, wherein the biocidal layer comprises an organic silicate network.

21. (new) The heat exchanger as claimed in claim 17, wherein the remaining region includes the inside surface of the tube starting at the tube's three o'clock position and continuing to the tube's nine o'clock position.

22. (new) The steam power heat exchanger system as claimed in claim 18, wherein the remaining region includes the inside surface of the tube starting at the tube's three o'clock position and continuing to the tube's nine o'clock position.

23. (new) The heat exchanger as claimed in claim 16, wherein the second biocidal layer comprises an organic silicate network.

24. (new) The steam power heat exchanger system as claimed in claim 18, wherein the second biocidal layer material comprises an organic silicate network.